



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Ref: CACE/BBMP/EE/DIV/YNK/PMC/02/2023-24

Name of Work: "Construction of Anganvadi Building at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division", BBMP, Bangalore.

Name of Client : : Executive Engineer, Yelahanka Division, BBMP, Bangalore.

Contractor/Agency : : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Total Cost : : Rs. 23.23 Lakhs

Date of Inspection : : 26.06.2023

Status of Bill : : 1st and Final

In the Presence of : : (a) Assistant Engineer Ward No.01, BBMP, Bangalore.

: : (b) Mr. Prajwal Gowda H, Engineer
M/s.Civil Aim Consultants and Engineers

Sl.No	Description of the Item	Qty	Unit	Comments / observations
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 163 Item No.19.7.3)	18.02	Cum	Work done up to the billed quantity and Quality is satisfactory
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking to the appropriate disposal area as per direction of Engineer in-charge.(PWD SR 2021-22 Vol-2 Pg 164 item No.19.12.2)	4.38	Sqm	Work done up to the billed quantity and Quality is satisfactory
3	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 165 item No.19.27.2)	35.00	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
9	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregate(	9.24	Cum	Work done up to the billed quantity and Quality is satisfactory
10	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates(PWD SR 2021-22 Vol-1 Pg 16 item No.2.4.1)	2.29	Cum	Work done up to the billed quantity and Quality is satisfactory
11	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (PWD SR 2021-22 Vol-2 Pg 9 item No.5.4)	13.72	Cum	Work done up to the billed quantity and Quality is satisfactory
12	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.(PWD SR 2021-22 Vol-1 Pg 7 item No.1.9)	46.62	Cum	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
4	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 163 item No.19.2.1)	7.00	Cum	Work done up to the billed quantity and Quality is satisfactory
5	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 165 item No.19.19)	42.00	Kg	Work done up to the billed quantity and Quality is satisfactory
6	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer in-charge.(PWD SR 2021-22 Vol-2 Pg 163 item No.19.9.2)	21.94	Cum	Work done up to the billed quantity and Quality is satisfactory
7	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m(PWD SR 2021-22 Vol-1 Pg 5 item No.1.4.2)	91.21	Cum	Work done up to the billed quantity and Quality is satisfactory
8	Poviding and Filling foundation with granite/ trap broken metal 100mm and down size with approval sand including hand packing ramming watering including cost of all materials and labour with all lead and lift complete as per specifications .Specification No.(PWD SR 2021-22 Vol-2 Corrigenda item No.6.4)	3.87	Cum	Work done up to the billed quantity and Quality is satisfactory

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13	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.(Tipper 14 m3)(PWD SR 2021 22 Vol-III Pg 3 item No.1.1C)	44.60	Cum	Work done up to the billed quantity and Quality is satisfactory
14	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(PWD SR 2021-22 Vol-III Pg 3 item No.1.4 A)	57.09	T.Km	Work done up to the billed quantity and Quality is satisfactory
15	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol-1 Pg 17 item No.2.4.3)	19.12	Cum	Work done up to the billed quantity and Quality is satisfactory
16	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse	1.62	Cum	Work done up to the billed quantity and Quality is satisfactory
17	Footings	9.12	Cum	Work done up to the billed quantity and Quality is satisfactory
18	Beam	5.35	Cum	Work done up to the billed quantity and Quality is satisfactory
19	Lintel	1.44	Cum	Work done up to the billed quantity and Quality is satisfactory
20	Staircase	2.37	Cum	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
21	Chejja	0.37	Cum	Work done up to the billed quantity and Quality is satisfactory
22	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members wherever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (PWD SR	4252.73	Kg	Work done up to the billed quantity and Quality is satisfactory
23	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m ³ and minimum compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications (PWD SR 2021-22 Vol-2 Pg 17 item No.6.32)	92.31	Sqm	Work done up to the billed quantity and Quality is satisfactory
24	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m ³ and minimum compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications (PWD SR 2021-22 Vol-2 Pg 17 item No.6.34)	38.02	Sqm	Work done up to the billed quantity and Quality is satisfactory
25	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m ³ and minimum compressive strength of 4.00 N/mm ² conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol-2 Pg 17 item No.6.33)	47.04	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
26	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 41 item No.8.4.2)	245.13	Sqm	Work done up to the billed quantity and Quality is satisfactory
27	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement : 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of	185.97	Sqm	Work done up to the billed quantity and Quality is satisfactory
28	Providing 12 mm cement plaster finished with a floating coat of neat cement of mix :1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 41 item No.8.4.2)	48.54	Sqm	Work done up to the billed quantity and Quality is satisfactory
29	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.(PWD SR 2021-22 Vol-2 Pg 50 item No 8.5.1)	234.51	Sqm	Work done up to the billed quantity and Quality is satisfactory
30	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 48 item No 8.40)	234.51	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
31	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two coats applied @ 1.43 ltr/10 m ² over and including priming coat of exterior primer applied @ 2.20 kg/10 m ²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol-2 Pg 46 item No.8.31)	245.13	Sqm	Work done up to the billed quantity and Quality is satisfactory
32	Providing and laying Cement concrete flooring 40 mm thick with 20 mm nominal size stone aggregate using 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete(PWD SR 2021-22 Vol-2 Pg 59 item No.9.1)	72.31	Sqm	Work done up to the billed quantity and Quality is satisfactory
33	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all	11.44	Cum	Work done up to the billed quantity and Quality is satisfactory

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34	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent(PWD SR 2021-22 Vol-2 Pg 62 item No.9.14)	63.88	Sqm	Work done up to the billed quantity and Quality is satisfactory
35	ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm, mixing fibre @ 125 g per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 61 item No.9.15)	2.16	Sqm	Work done up to the billed quantity and Quality is satisfactory
36	Providing Mathi/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of	0.50	Cum	Work done up to the billed quantity and Quality is satisfactory
37	Providing and fixing in position fully panelled Matti/Nandi wood shutters for doors with, stiles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)(PWD SR 2021-22 Vol-2 Pg 100 item No.12.18)	9.21	Sqm	Work done up to the billed quantity and Quality is satisfactory

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SL.No	Description of the Item	Qty	Unit	Comments / observations
38	Providing and fixing M.S. grills of required pattern in frames of win dows etc. with M.S. flats, square or round bars etc.including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc(PWD SR 2021-22 Vol-2 Pg 85 item No.11.34 B)	267.60	Kgs	Work done up to the billed quantity and Quality is satisfactory
39	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having a overall size of 60mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm X 58mm with GI reinforcement of 1mm for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2-2.5 mm. Maximum possible size - 1819mm x 1819mm (The cost is inclusive of all	10.67	Sqm	Work done up to the billed quantity and Quality is satisfactory
40	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and withminimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clin in Aluminium (powder	0.45	Sqm	Work done up to the billed quantity and Quality is satisfactory
41	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m ² over an under coat of primer applied @ 0.80 ltr/10 m ² of approved brand and manufacture including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge(PWD SR 2021 22 Vol-2 Pg 47 item No.8.33.3)	11.15	Sqm	Work done up to the billed quantity and Quality is satisfactory

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42	fabricating .Providing and erecting in position hot dip galvanised Gate.Using 72X72X4.8MM Sq.GI pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile , 20mm hot dip galvinsed sq.road for verticles at 150mm C/C,as shown in the drawing including providing hot dip galvanised forged Ornamental design in btn Sq.road and heads at top, middle,and bottom.Intermediate supports 75x12mm and 50x6 mm arch bend to hot dip galavised Flats .The work is inclusiveof thoughing GI flat GI sq.rods placing welding aal joints including	1.80	Sqm	Work done up to the billed quantity and Quality is satisfactory
43	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kgsqr.m2 to achieve final DET /dry film	50.31	Sqm	Work done up to the billed quantity and Quality is satisfactory
44	Providing and placing on terrace ,Polythene water storage tanks as per IS12701 Marked with cover and suitable locking arrangement and make necessary holes for inlet,outlet and overflow pipes but without fittings and the base supports for tank (For 1000 litres capacity)(PWD SR 2021-22 Vol-2 Corrigenda Sl.No.12 item No.13.34)	1000.00	Ltr	Work done up to the billed quantity and Quality is satisfactory
45	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:14.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests(PWD SR 2021-22 Vol-123 Pg 111 item No.14.1.1)	2.00	Each	Work done up to the billed quantity and Quality is satisfactory
46	PTMT grating 100 mm dia(PWD SR 2021-22 Vol-2 Pg A-26 item No.470)	4.00	Each	Work done up to the billed quantity and Quality is satisfactory

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47	White Vitreous china flat back wash basin 550x400 mm(PWD SR 2021-22 Vol-2 Pg A-32 item No.674)	2.00	Each	Work done up to the billed quantity and Quality is satisfactory
48	Providing and fixing brass bib cock of approved quality :20 mm nominal bore(PWD SR 2021-22 Vol-2 Pg115 item No.13.3.2)	4.00	Nos	Work done up to the billed quantity and Quality is satisfactory
49	Providing and fixing brass stop cock of approved quality :20 mm nominal bore(PWD SR 2021-22 Vol-2 Pg115 item No.13.2.2)	2.00	Nos	Work done up to the billed quantity and Quality is satisfactory
50	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :20 mm nominal bore(PWD SR 2021-22 Vol 2 Pg115 item No.13.5.2)	2.00	Nos	Work done up to the billed quantity and Quality is satisfactory
51	Providing and fixing chlorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and making good walls)20mm nominal dia pipes (PWD SR 2021-22 Vol,2 Sl.no.27.Item .No.13.48)	23.00	mtr	Work done up to the billed quantity and Quality is satisfactory
52	Providing and fixing on wall face unplasticised rigid PVC rain water pipes confirming to IS:13592 Type A Including jointing with seal ring confirming IS:5382 leaving 10mm gap for thermal expansions (i) single socketed pipes 100mm diameter (PWD SR 2021-22 Vol-2 Corrigenda Sl.No.27 item No.13.48)	12.00	mtr	Work done up to the billed quantity and Quality is satisfactory

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